MINI MAXX™

INSTALLATION MANUAL

Dodge 6.7L Cummins 2007.5 - 2010
GM 6.6L Duramax 2007.5 - 2010
Ford 6.4L Powerstroke 2008 - 2010

WARNING!

THIS IS A HIGH PERFORMANCE PRODUCT TO BE USED AT YOUR OWN RISK!

Do not install this product until you have read and fully understand the following disclaimer of liability. The following disclaimer of liability sets forth the terms and conditions for the installation and/or use of this product. By installing this high performance product, the buyer acknowledges that they have read and fully understand this disclaimer and accepts its terms and conditions.

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The BUYER acknowledges that he/she is not relying on the SELLER's skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description herein, and the BUYER hereby waives all remedies or liabilities, expressed or implied, arising by law or otherwise, (including without any obligations of the SELLER with respect to fitness, merchantability and consequential damages) or whether or not occasioned by the SELLER's negligence.

The SELLER disclaims any warranty and expressly disclaims any liability for personal injury or damages. The BUYER acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the BUYER agrees to indemnify the SELLER and to hold the SELLER harmless from any claim related to the product purchased. Under no circumstances will the SELLER be liable for any damages or expenses by reason of use or sale of any such products.

The SELLER assumes no liability regarding the improper installation, misuse, or misapplication of its products. It is the buyer and/or installer's responsibility to check for proper installation.

LIMITATION OF WARRANTY

H&S Performance, LLC ("SELLER") gives Limited Warranty as to the description, quality, merchantability, fitness for any product's purpose, or any other matter of SELLER's product sold herewith. The SELLER shall be in no way responsible for the product's use and service and the BUYER hereby waives all rights other than those expressly written herein. This Warranty shall not be varied except by a written agreement signed and dated by SELLER and BUYER.

The Warranty is Limited to one (1) year from the date of sale and limited solely to the parts contained within the product's original packaging. All products that are in question of Warranty must be returned shipping prepaid to the SELLER and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by H&S Performance, LLC.

Under no circumstances shall the SELLER be liable for any labor charges incurred, or travel time incurred in diagnosis for defects, removal, or re-installation of this product, or any other contingent expenses. Any product deemed defective and consequently repaired or replaced by SELLER, shall retain the remainder of the warranty period from date of purchase, as the warranty period shall not be extended due to repair or replacement. Under no circumstances will the SELLER be liable for any damage or expenses incurred by reason of the use or sale of any such product.

If the buyer does not agree to the terms of this limited warranty or the disclaimer of liability, the buyer may return this product to the SELLER in a new and unused condition, along with dated proof of purchase, within 30 days of purchase, for a full refund.

This warranty is null and void for any new products purchased through unauthorized dealers.

This warranty is null and void for any products sold as USED or REFURBISHED.

This warranty is null and void for any products purchased below the H&S UNILATERAL PRICING POLICY

EMISSION DELETE TUNING:

Emission delete tuning is for RACE USE ONLY, or where emissions equipment is not required by law. If instructed by your H&S product please visit www.hsperformance.com to download emissions delete tuning. Product registration is required.

INTERNET UPDATES:

H&S Performance regularly issues free internet updates and custom tuning options for the Mini Maxx. Please check to see if there are any available for your truck by going to: www.hsperformance.com

TROUBLESHOOTING:

Please read and understand all installation instructions before proceeding with the installation.

If you have questions during the installation of this product, please call H&S Performance support at 1-888-628-1730

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BILL OF MATERIALS

The list below includes by name the major parts included in your Mini Maxx package. The tools list indicates all of the tools necessary to complete the Mini Maxx install.

1. Mini Maxx
   - Micro SD Card (in Mini Maxx)
2. Mini Maxx Power Cable
3. PCH Board**
   - Screws (2)**
   - Zip Ties (4)**
   - Velcro Strip**
   - Fuse Adapter**
4. Pyrometer Probe**
5. OBDII Adapter
6. Windshield Mount
7. Mini USB Cable
8. HDMI Cable

1.

2.

3.

4.

5.

6.

7.

8.

** Not included and not required for Ford Powerstroke.

PARTS DESCRIPTION

This section describes each of the parts in the Bill of Materials, the descriptions provide a physical set of attributes and a purpose for each part. The parts descriptions also list everything that is included in each assembly.

The Mini Maxx Head Unit

The main component is the Mini Maxx Head Unit. The Head Unit is the interface in which you control vehicle performance parameters. It is also the brains that will save vehicle activity and defuel a vehicle. Notice that the head unit has: seven total buttons, five on the left side and two on the right, a large color screen, and an electronic plug for docking on the back. Note that this is the last piece that you will install.

Note: Mini Maxx includes a micro SD card inserted in the side of the Head Unit.

Power Cable

The Power cable connects the OBD II Adaptor Plug to the vehicle fuse box to supply power to the Mini Maxx. It is optional to use as there are two ways to power up your Mini Maxx

1. *(Recommended) Use this power cable and wire it to the designated location specified later in this manual.*
2. *The OBD II port provides constant 12V+ power, so your Mini Maxx can power off of the OBD II port alone. But in this situation the Mini Maxx will not turn on and off with the ignition. There is a switch on the OBDII adapter plug in order to turn the Mini Maxx on and off.*

OBDII Adapter Plug

The OBDII Adapter is a communication hub for the Mini Maxx.
The OBD II Adaptor plugs directly into the vehicle OBD II port. Notice the OBD II Adaptor has many ports to support various other functions of the Mini Maxx.

Pyrometer Connection Head (PCH) Board Assembly*

The PCH Board or Pyrometer Connection Head serves as a dock to connect the pyrometers into the Mini Maxx system. The PCH Board includes the ability to connect two pyrometers. Attached to the PCH Board housing is a cable with four pin plug which connects to the OBDII Adapter Plug. The list below includes all separate parts that make up the entire PCH Board Assembly.

- *PCH Board*
- *Velcro*
- *(2) Self-tapping Sheet Metal Screws*
- *Pyrometer Cable*

* Not included, Not required for Ford Powerstroke

Universal Windshield Mount

This universal windshield mount is used to install the Mini Maxx firmly onto the windshield, it is a suction cup mount that will work on any vehicle windshield. Check our web site for other mounting options, the Mini Maxx is adaptable to a range of other mounting styles.

Mini USB Cable

Use this cable to connect your Mini Maxx to your personal computer to install software updates. Visit www.hsperformance.com in the downloads section for product updates. Please find your product application and follow the posted instructions there to update your Mini Maxx.

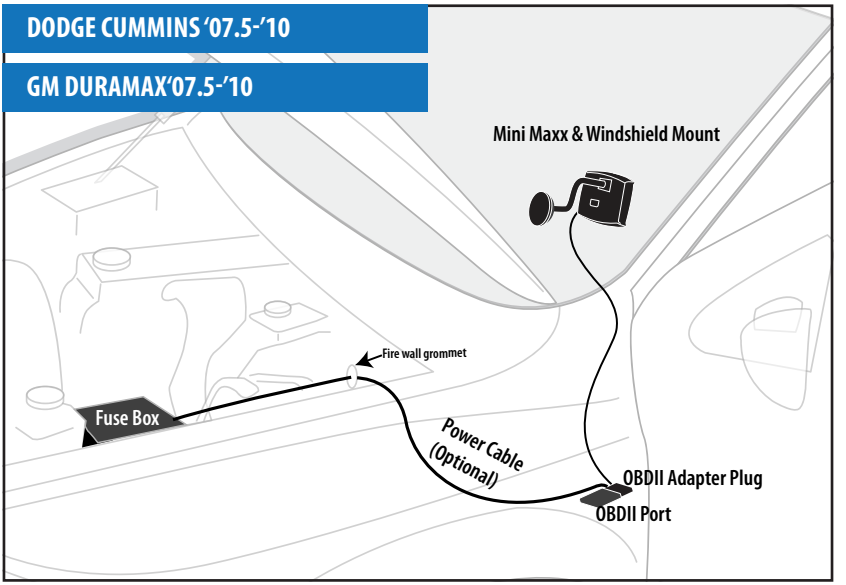
HDMI Cable

The HDMI Cable connects the Mini Maxx to the OBD II Adapter Plug and acts as the main line of communication for the Mini Maxx.

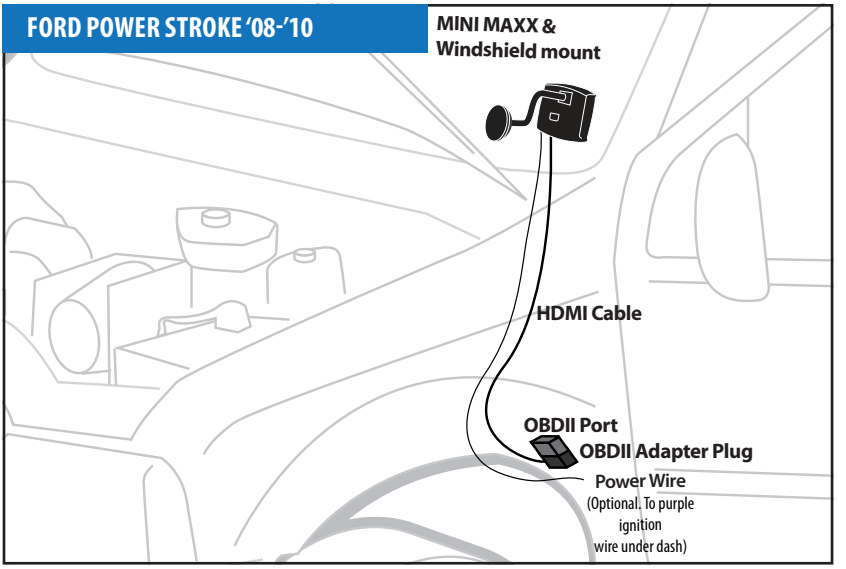
INSTALLATION OVERVIEW

The installation overview illustrates a totally installed and functional Mini Maxx system. This overview is meant to help reference the general location of installed parts and pieces of the Mini Maxx. Notice that there are different overview diagrams. Use the correct diagram for your truck.

DODGE CUMMINS '07.5-'10
GM DURAMAX'07.5-'10



FORD POWER STROKE '08-'10



MINI MAXX INSTALLATION INSTRUCTIONS

SECTION 1: MOUNTING THE MINI MAXX

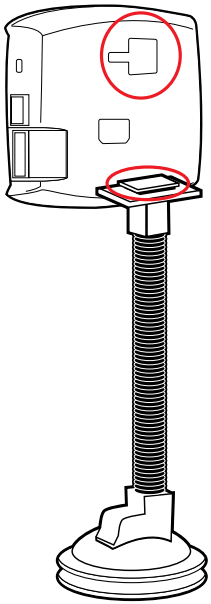
In this section you will decide where to mount the Mini Maxx Cradle, so you are essentially choosing the location for the Mini Maxx inside the vehicle cab. First, decide which mounting style you will choose for the Mini Maxx; we offer two different styles of mounting:

1. Windshield mounting
2. Custom Pod mounting (Refer to the instructions included with your custom pod)

Visit hsperformance.com for custom options

WINDSHIELD MOUNTING

1. Locate the T-shaped mount socket on the back side of the Mini Maxx.
2. Notice that the top of the universal mount will fit into T-shaped socket and slide forward to secure the Mini Maxx to the mount.
3. With the Mini Maxx connected to the mount use the windshield mount to secure the Mini Maxx to the wind- shield. Be sure that the position of the Mini Maxx does not obstruct the view of the road or distract the driver from their primary responsibility, which is driving responsible.



SECTION 2: INSTALLING THE PYROMETER AND THE PYROMETER CONNECTION HEAD (PCH)

* **If you are installing on a Powerstroke, you can skip this section.** Ford Powerstroke trucks come with a pyro from the factory. The Mini Maxx will automatically read from the factory sensor.

In this section you will drill and tap the Pyrometer Probe in the exhaust, either pre-turbo or post-turbo as a means to collect exhaust gas temperatures (EGT). Exhaust gas temperatures indicate how hot the motor is getting and can be used to set safety defueling parameters.

POST-TURBO VS. PRE-TURBO

You must decide between mounting the Pyro Probe either post-turbo or pre-turbo. The difference in location determines what temperatures will read on your Mini Maxx. Pre-turbo mounting is generally recommended because it provides more accurate EGT readings.

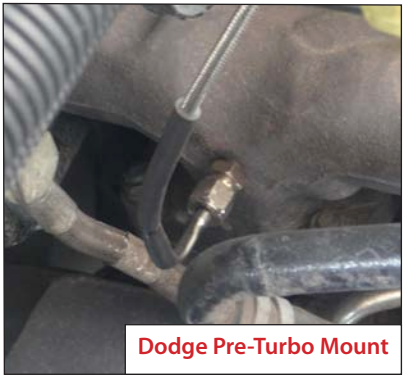
The Mini Maxx is capable of running two pyrometers simultaneously. Please purchase an extra probe, if you wish to read pre AND post turbo pyrometers.

PRE-TURBO MOUNT

1. Drill a 5/16" hole into the exhaust manifold where all the exhaust runners of the manifold come together, just before the turbo exhaust inlet. Then tap the hole with a 1/8" pipe tap and mount the Pyrometer Probe in the hole. Use a 9/16" wrench to tighten the probe holder or tube fitting to the down tube. Then tighten the Pyro Probe Cap to the holder using a 5/8" wrench.
2. Run the Pyro Cable up to engine bay; let the end of the cable sit while installing the PCH Board.

GM Pre-Turbo Mount

WARNING: If any debris such as drill bits and metal shavings drop inside the manifold, we advise that the manifold be removed from the vehicle so that the debris can be removed before starting the vehicle again.



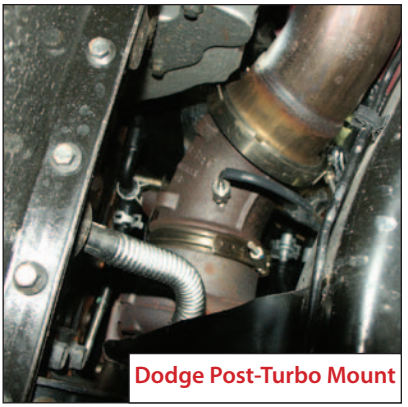
Dodge Pre-Turbo Mount

TOOL TIP, PRE-TURBO MOUNT

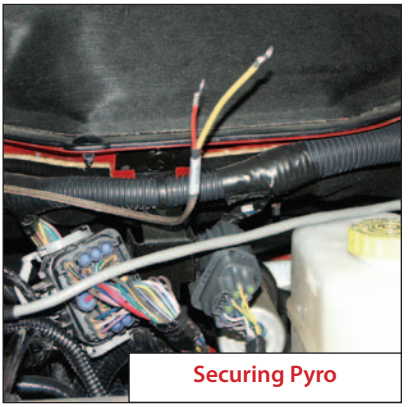
When drilling into the exhaust manifold, metal spews, shavings, and broken drill bits can fall inside. This can be hazardous to your turbo when the engine starts. Try doing four things to avoid this possible problem. One, use a high quality twist bit and a slow speed drill, about 500-800 rpm. Two, start with a small pilot bit about 1/8", then use the full 5/16" bit after the smaller one has punched through. Three, grease your drill bit in addition to the normal lubricant, this will catch flying spews as they are cut. Four, just prior to punching through into the inside of the manifold, start the engine and build up exhaust pressure on the inside of the manifold (blows spews outside the manifold instead of letting them fall inside).

POST-TURBO MOUNT

1. Find a location on the exhaust pipe that is 3-6″ downstream from the turbo charger output. Then drill a 5/16″ hole and run a 1/8″ pipe tap into the hole. Mount the Pyrometer Probe in the threaded hole using a 9/16″ wrench to tighten the probe holder or tube fitting to the down tube. Then tighten the Pyro Probe Cap to the holder using a 5/8″ wrench.
2. Run the Pyro Cable along the brim of the engine bay, and then let the end sit when installing the PCH Board.



Dodge Post-Turbo Mount



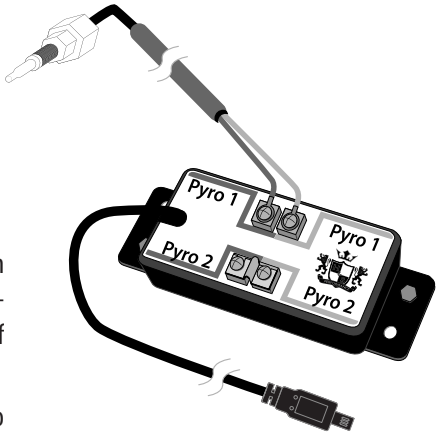
Securing Pyro

Pyro line secured

INSTALLING THE PCH BOARD

The pyrometer that was installed will now have to be connected to the PCH Board, but first the PCH Board needs to be mounted in a secure location that both of the pyrometer ends can reach.

1. Gather all of the parts of the PCH Board assembly:
   - Pyrometer Connection Head with PCH Cable
   - Self-tapping Sheet Metal Screws
   - Velcro
   - Jumper
   - Zip Ties



2. The PCH Board needs to be mounted in a location that is secure (away from extreme heat and moving parts), and in a location in which the end of the Pyrometer Cable can easily reach.
3. Use the sheet metal screws or Velcro, or both to securely attach the PCH Board to a safe location within the engine bay.
4. To connect the end of the Pyrometer Cable to the PCH Board, first remove the screw and nut on the end of the pyrometer leads, then remove the screws from the Pyro 1 heads on the PCH Board. Use those screws to secure the Pyrometer Cable leads to the PCH Pyro 1 heads, see the PCH Assembly Diagram (pg. 19) for a visual reference when connecting the pyrometer leads to the PCH Board.

Notice: Do not remove the jumper from the Pyrometer 2 location unless you are installing a second pyrometer.

If connecting two pyrometers keep track of which location, Pyro 1 or 2, each pyrometer was attached to on the PCH Board

5. Once the PCH Board is secure and the pyrometer is connected to the PCH Board, use zip ties to secure the pyrometer cables away from extreme heat and moving parts.
6. Run the end of the PCH Cable through the fire wall. It will need to be connected to the OBDII Adapter Plug. Use zip ties to secure all remaining cable left inside the engine bay.

SECTION 3: DODGE CUMMINS 6.7 EGR

This section is ONLY for DPF Delete tuning on 6.7L Dodge Cummins. On all other models, the EGR is automatically turned off. DPF Delete tuning is for RACE USE ONLY!

2010 6.7L Cummins EGR

For 2010, Cummins has changed their EGR programming. It is no longer necessary to unplug the EGR system if you are installing DPF delete tuning on a 2010 6.7L Cummins. You can still, however, remove the entire EGR system using an H&S EGR Delete kit. Whether you decide to remove the entire EGR system, or leave it plugged in as factory, the EGR will NOT function and will NOT throw check engine lights.

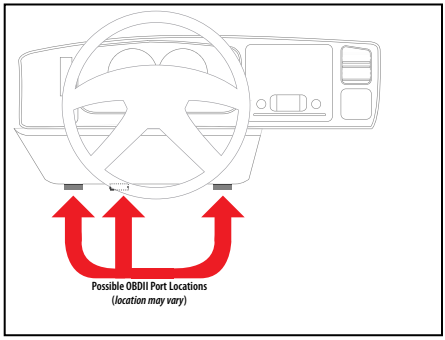
For all H&S Race tunes, EGR MUST BE TURNED OFF!! To turn off EGR flow, please follow steps below. EGR can be blocked or removed as well, but the following steps MUST be taken for trouble free operation.

1. Locate EGR Throttle Control Valve Assembly (Fig.1). Assembly is located between intercooler and intake manifold on drivers side of engine compartment.
2. Unplug EGR Throttle Control Valve wire harness. Harness is LIGHT GRAY in color and is located on back side of Throttle Valve Assembly, and is not directly visible when looking at assembly from above. It is recommended to view from below engine to determine correct angle for removal. **Note** There is a red lock tab that must be moved sideways in order to remove the harness.
3. Locate EGR Solenoid on top of intake horn, on drivers side (Fig 2). It is directly visible when looking at intake horn, and faces towards front of truck.
4. Unplug EGR Solenoid wire harness. Connector is Brown in color.
5. Install EGR block-off plates, if desired.

SECTION 4: OBDII ADAPTER PLUG

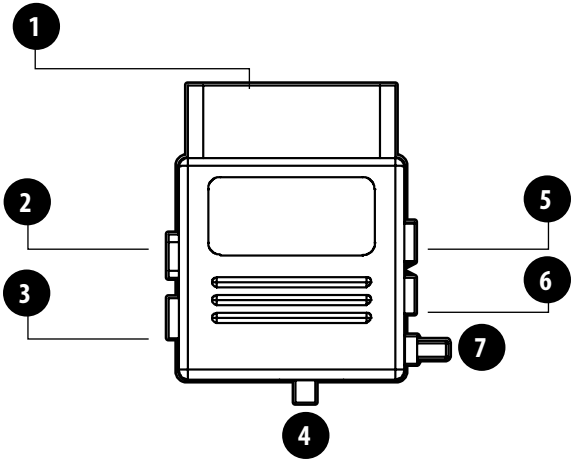
This step involves locating the vehicle's OBD II port and then simply plugging the OBD II Adapter Plug into the OBD II port.

1. As the illustration below shows, OBD II ports are always located somewhere under the drivers side dash. The OBD II port is a male receiver that will have the same shape as the end of the OBD II Adaptor plug.
2. Once the OBD II port is located, then simply plug the OBD II Adaptor plug into the OBD II port.



OBDII ADAPTER PLUG DIAGRAM

1. **OBD II Male end:** this is the part of the adapter plug that plugs into the vehicle OBD II port.
2. **Main harness port:** the main harness will plug into the Mini Maxx and into this port during installation.
3. **Power wire port:** the power wire will run from this port to the vehicle fuse box during installation. Plug into the Mini Maxx and into this port during installation.
4. **Power supply switch:** use this switch to change power from running off of the Power Wire to OBD II power as a power supply for the Mini Maxx.
5. **Four pin usb:** This port is used if an H&S pyrometer kit is purchased for the Mini Maxx.
6. **Five pin usb**
7. **Adapter plug fuse**



SECTION 5: INSTALLING THE POWER WIRE (*OPTIONAL)

*The OBD II port provides constant 12V+ power, so your Mini Maxx can power off of the OBD II port alone. But in this situation the Mini Maxx will not turn on and off with the ignition. There is a switch on the OBDII adapter plug in order to turn the Mini Maxx on and off.

In this section you will run the Power Wire coming from the Mini Maxx Cradle to the vehicle fuse box and connect it to the fuse locations specified below. The fuse location for the Power Wire is different on each vehicle application.

CONNECTING THE POWER WIRE:

1. For Dodge and GM trucks the fuse boxes are located on the driver's side of the vehicle inside the engine bay. Please see your owner's manual for more details on fuse box locations. Once inside the fuse box, locate the appropriate fuse depicted in the vehicle-specific pictures below. For Ford trucks route power wire underneath drivers side dash and connect it to the purple ignition wire shown in picture below.

Power Wire w/90° Connector

2010 Dodge Fuse Box
(Fuse number M45)

The fuse numbers shown are the typical locations.
Your model MAY BE DIFFERENT.
Use a test light or multimeter to verify you have 12v with ignition ON.

'07 - '10 GM Fuse Box
(Fuse number 45)

'07 - '09 Dodge Fuse Box
(Fuse number 28)

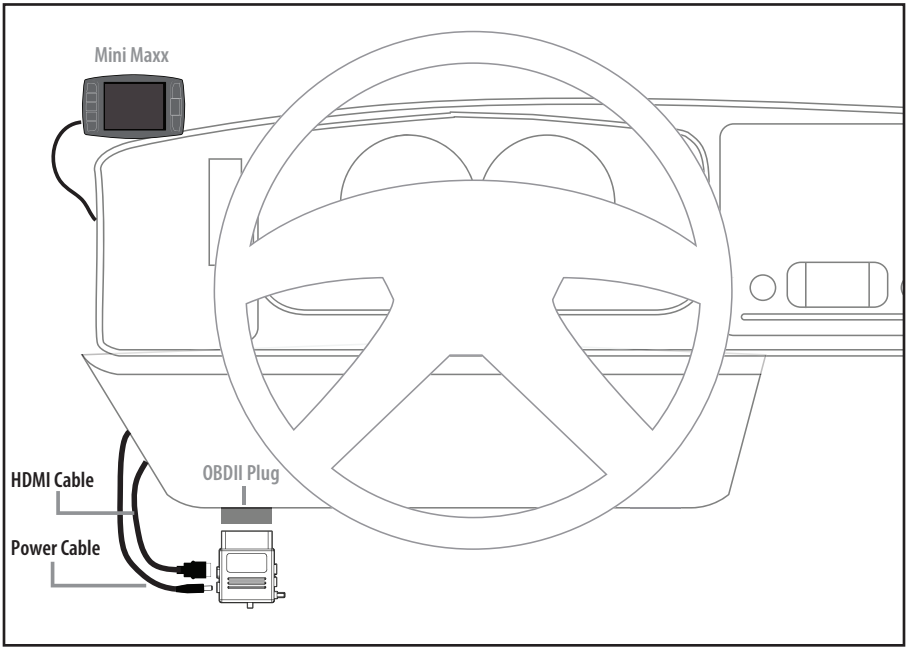
'08 - '10 Ford Power Wire
(Capped from the factory)

2. Remove the fuse, indicated in the pictures, and insert the fuse jack. Make sure that the fuse jack is placed on the dead side of the fuse to ensure that the Mini Maxx is protected by the fuse. Use a volt meter to verify the dead side of the fuse. With the fuse pulled and the truck powered on but not started, the volt meter should read 0 volts on the fuse jack to ground. Problems that can occur if the incorrect fuse is used for this connection: the power may stay on continuously even with the key off; or, the Mini Maxx can receive power at the incorrect time of the power-on/starting cycle of the vehicle.
3. Run the power wire through the fire wall before preparing the Power Wire. Prepare the Power Wire by stripping the end of the wire about ¼". Connect the blue 90° connector to the end of the Power Wire using crimping pliers.
4. Connect the Power Wire to the fuse jack, place the fuse back into the slot, and close the fuse box.

SECTION 6: RUN MINI MAXX HDMI CABLE

In this section you will connect the Mini Maxx HDMI cable to the OBD II Adaptor plug and then run the other end of the HDMI cable up the side of the vehicle dash and connect it to the back of the Mini Maxx.

1. Plug one end of the HDMI cable into the Main Harness port on the OBD II adapter plug.
2. Run the other end of the HDMI cable up through the vehicle dash on the drivers side so that the end of the cable emerges from the dash near the vehicle A-pillar. It may be necessary to temporarily remove the vehicle weather stripping and dash panel to achieve an installation where the HDMI cable cannot be seen.
3. Plug the HDMI cable into the back side of the Mini Maxx, make sure that there is enough slack in the cable to accommodate mounting the Mini Maxx to the windshield.



Almost Done!

You need to install the download now. Read the next section for Install Download procedure.

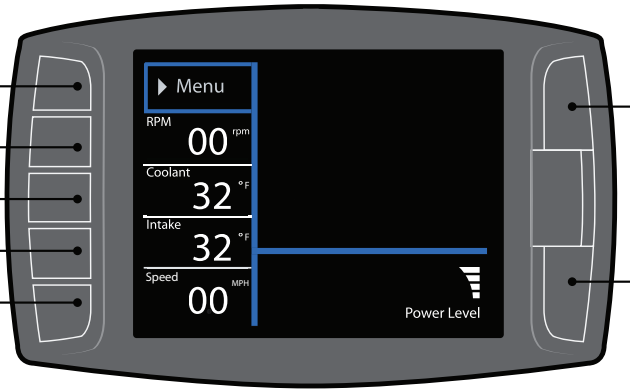
MINI MAXX OPERATING INSTRUCTIONS

These operating instructions are split into sections:

- **SECTION 1**: Button Navigation
- **SECTION 2**: Install Download
- **SECTION 3**: Exploring the Main Screen
- **SECTION 4**: Exploring the Menu System
- **SECTION 5**: Vehicle Specific Features
- **SECTION 6**: Vehicle Setup
- **SECTION 7**: Other Mini Maxx Features

SECTION 1: BUTTON NAVIGATION

Press the top left button to enter the Main Menu, also use this button to exit menus.



Press any of the four buttons on the left to select items on the screen that are adjacent to the button position.

In general these buttons work as up and down buttons, they may also be used to select items on the screen adjacent to these buttons.

SECTION 2: INSTALL DOWNLOAD

The Install Download option is used to install tuning onto a vehicle, or return a vehicle to stock.

1. **Press Menu:** To get into the Mini Maxx main menu.
2. **Select Install Download:** You may have to "Arrow Down" or "Arrow Up" to find this option.
3. **Install a download onto a stock vehicle:** If the vehicle is stock and you enter the install download menu, simply follow the screen prompts to install a download on the vehicle.

   Change Download Settings: If the vehicle already has a download on it from the Mini Maxx that is currently installed on that vehicle. This option is used to install updated or custom tuning. Updated and Custom tuning can be download for the H&S Performance website.

   Return a vehicle to stock: To completely return a vehicle to its factory stock conditions you need to select this option. This is highly recommended when taking the vehicle in for any kind of service.

This Mini Maxx screen shot shows what you will see if a download has already been entered into a vehicle.

Before installing the download:

- Make sure that the Mini Maxx is properly plugged in.
- Make sure that the harness is properly installed.
- The vehicle battery is fully charged.
- The vehicle is warmed up to operating temperature.

THE MICRO SD CARD MUST BE INSERTED IN THE SIDE OF THE MINI MAXX TO DOWNLOAD TO A VEHICLE.

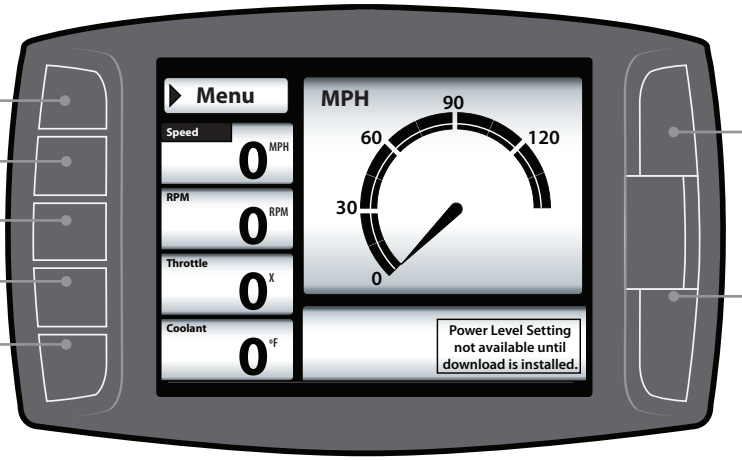
SECTION 3: EXPLORING THE MAIN SCREEN

The Main Screen is where you view all of the vehicle activity. In this section you will learn how to navigate the Main Screen and learn about all of the different parts of the Main Screen.

MAIN SCREEN NAVIGATION

Below are descriptions of how all of the Mini Maxx buttons work and what they do while in the Main Screen. The buttons perform different functions while in a menu or submenu.

Press the top left button to enter the Main Menu, also use this button to exit menus.



Press any of the four buttons on the left that coincide with the four vehicle parameters to display that particular vehicle parameter on the large gauge in the upper right side of the screen. Hold a button down to view the different graph types for the large gauge.

Power Level Up
Power Level Down

Use the power level buttons to control power levels on-the-fly only while in the main screen

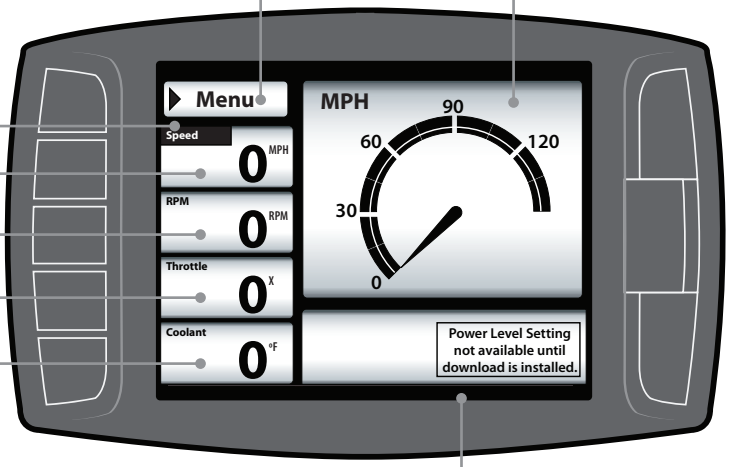
MAIN SCREEN PARTS DESCRIPTION

This section will describe all of the different parts of the Main Screen.

The black bar: The black bar highlights the title of one of the four displayed vehicle parameters to indicate that vehicle parameter is also being displayed on the large gauge.

Menu button: press to enter the main menu.

Large Gauge



Vehicle parameters: To change which vehicle parameter is displayed in the large gauge area simply press one of the four buttons next the preferred vehicle parameter.

Power level text: Displays which power level is active, whether it be: Stock, Mild, Wild, or Hot.

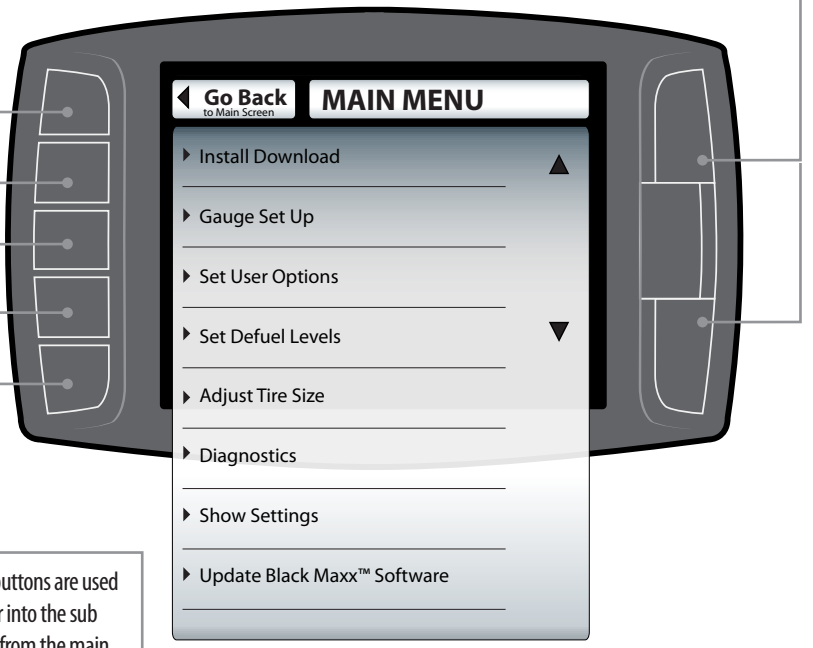
Note: This will not be active if the Download has not been installed.

SECTION 4: EXPLORING THE MENU SYSTEM

The diagram below shows all of the Main Menu items and explains the Main Menu navigation.

This button is used to enter into the Main Menu from the main screen. While in any of the menus this button works as a back button.

Navigation through the main menu: Use the large Up ▲ Down ▼ Buttons to page up and page down through all the Main Menu options.



These buttons are used to enter into the sub menus from the main menu and may also be used to select additional items when in the sub menus.

SECTION 5: VEHICLE SPECIFIC FEATURES

GM 6.6L FEATURES

SPEED LIMITER (GM 6.6L)

The Mini Maxx gives racing enthusiasts the option to adjust the OEM speed limiter. This allows the vehicle to reach speeds in excess of where the OEM speed limiter was set. By selecting yes to remove the speed limiter you agree that your vehicle has tires rated for speeds in excess of 140 mph. **Do not attempt to operate the vehicle at speeds higher than the posted speed limit.**

TRANSMISSION RE-LEARNING (GM 6.6L)

Performing a Transmission Reset is VERY important! A reset must be done to re-train the transmission to perform correctly with added horsepower.

CAUTION! When re-training the transmission, a series of 0-80 MPH Wide Open Throttle(WOT) runs are necessary for proper transmission shifting. ALWAYS follow posted speed limits. DO NOT attempt WOT runs in adverse weather conditions such as snowy, icy, rainy or other conditions which may affect your vehicles traction, or impair your visibility.

After download is complete, turn key to ON position. From the general display screen(initial start-up screen), press top left button to take you into the main menu screen. Use the down arrow on the right side of the unit to scroll down to "Reset Transmission". Press the button on the left side to agree to the transmission reset. Press the corresponding button on the left hand side of the unit to reset the transmission.

Once reset, it is highly recommended to perform a series of (3) 0-80 MPH runs immediately following each download.

It is recommended that the Transmission learning process be done while in the "Hot" setting on your Mini Maxx Tuner.

1. 0-80MPH @ 1/4 throttle position, then slow down and come to a complete stop
2. 0-80MPH @ 1/2 throttle position, then slow down and come to a complete stop
3. 0-80MPH @ wide open throttle position, then slow down and come to a complete stop

FORD 6.4L FEATURES

TIRE SIZE CALIBRATION (FORD 6.4L)

During the programming of the Ford 6.4L Powerstroke the Mini Maxx will ask if you would like to adjust your factory tire size to calibrate your factory speedometer. Please make the necessary adjustments and follow the on screen instructions. This tire size adjustment can only be done when installin or reinstalling tuning software on truck. if at any point you would like to change your tire size, select menu, install download, agree to the disclaimers, and select change settings. Follow the on screen instructions.

TRANSMISSION RE-LEARNING (POWERSTROKE 6.4L)

IMPORTANT! During the programming of the Ford 6.4L Powerstroke the automatic transmission is cleared of all memory and must be re-learned. During this re-learn process you may experience hesitation during shift, hard shift, or defuel patterns. This is normal and you should continue through the learning process.

CAUTION! When re-training the transmission, a series of 0-80 MPH Wide Open Throttle(WOT) runs are necessary for proper transmission shifting. ALWAYS follow posted speed limits. DO NOT attempt WOT runs in adverse weather conditions such as snowy, icy, rainy or other conditions which may affect your vehicles traction, or impair your visibility.

Once your download is installed, please follow these steps to set-up your transmission correctly.

It is recommended that the Transmission learning process be done while in the "Hot" setting on your Mini Maxx Tuner.

1. 0-60MPH @ 1/4 throttle position, then slow down and come to a complete stop
2. 0-60MPH @ 1/2 throttle position, then slow down and come to a complete stop
3. 0-80MPH @ wide open throttle position, then slow down and come to a complete stop

IMPORTANT! On any truck using larger than 3" lift blocks under the rear leaf pack, it is HIGHLY RECOMMENDED to install traction bars. On 60+ HP Tune, failure to do so may result in harsh shifting and may cause premature transmission and/or drive line damage.

DODGE 6.7L FEATURES

To make any changes, you must have the **Engine Off** and the **Drivers Door Closed**.

TIRE SIZE CALIBRATION

This option will recalibrate your factory speedometer to adjust for non-stock sized tires or gearing. This feature works exactly the same as the Adjust Tire Size feature, except that Adjust Tire Size only affects the speed displayed on the Mini Maxx.

SPEED LIMITER

During the download process, you will be asked if you would like to remove the speed limiter. Follow the on screen prompts to make your selection. **Do not attempt to operate the vehicle at speeds higher than the posted speed limit.**

IDLE UP

Enables / Disables the use of the high idle feature. Follow your Chrysler owners manual to use this feature. It will use the cruise control buttons to control idle RPM.

AUTO DOOR LOCK

Enables / Disables the automatic door locking when the vehicle reaches a certain speed.

HEAD LAMP DELAY

Enables / Disables the head lamp delay.

HORN CHIRP ON LOCK

Enables / Disables the horn chirp when locking the vehicle.

OPTICAL CHIRP ON LOCK

Enables / Disables the parking lights flashing when locking the vehicle.

UNLOCK DRIVER DOOR

Enables / Disables unlocking the driver door only when pushing the unlock button on the key-fob. When enabled your vehicle will require a double push of the unlock button to unlock all doors.

SEAT BELT MINDER

Enable / Disable the chime and light for the drivers seat belt system.

ACCESSORY DELAY

Enable / Disable the time delay your radio and accessory system will stay on after the key has been turned off.

FOGS W/HIGHS

Enable / Disable the fogs staying on when the high beam lights are being used.

DAYTIME LIGHTS

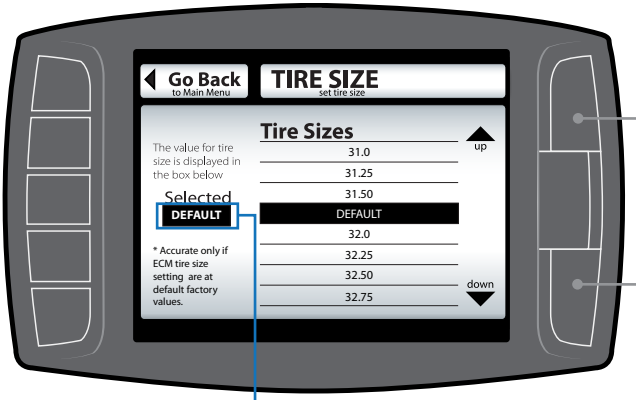
Enable / Disable daytime running lights.

SECTION 6: VEHICLE SETUP

This section describes various non-vehicle specific features of the Mini Maxx

ADJUST TIRE SIZE

The tire size function allows you to adjust the speed that the Mini Maxx will display in one of the gauge locations to account for larger or smaller than stock tire sizes. The range of tire sizes that the Mini Maxx will adjust for starts at 28" and goes up to 39" and it adjusts in increments of .25".



Notice that the selected tire size is displayed in the box on the left side of the screen. Once the correct speed is highlighted simply press the go back button to exit. Your selection will automatically be saved.

Use the Up ▲ and Down ▼ buttons to scroll through the available tire sizes; highlight the tire size that fits what is currently mounted on the vehicle to display the speed accurately.

Default setting:

The default setting reads the speed directly off of the vehicle's computer. Use this setting if you have already calibrated the speedometer for larger or smaller aftermarket tires.

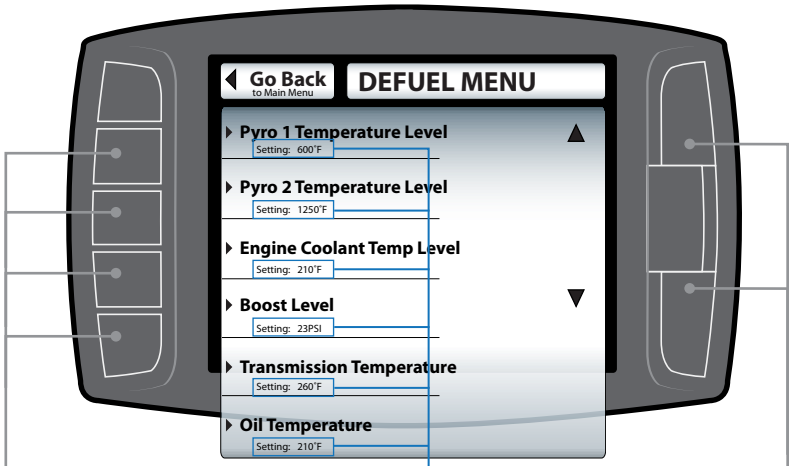
To adjust the factory speedometer, please use the Tire Size Calibration feature.

Adjust Tire Size will only affect the speed that is displayed on the Mini Maxx.

DEFUELING PARAMETERS

Set up defueling parameters based on a number of different vehicle parameters. In this menu you can also turn vehicle parameters off. The defueling parameters available are vehicle specific, so not all defueling parameters are available for every make and model.

By default the Mini Maxx is setup to automatically limit the power level until the vehicle has reached operating temperature. This will keep the unit in "No Power" until vehicle is warmed up. This feature is highly recommended, and will reduce wear & tear on the engine. If you wish, this feature can be turned off.



Press to enter set up menu for defuel items.

Current setting are displayed in Defuel Menu

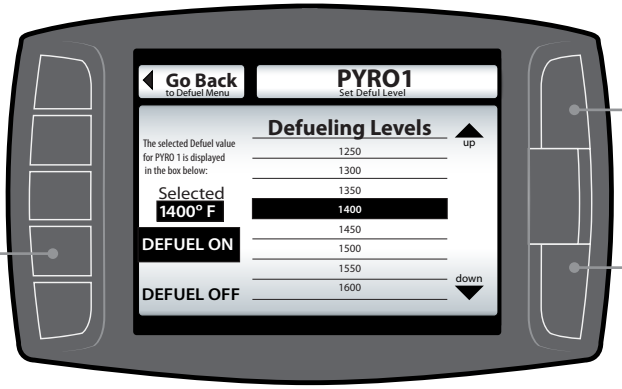
Use the Up ▲ Down ▼ Buttons to scroll up and down through the different sub menu items.

Default Defueling Settings	
Pyro 1 Temperature Level	1450°F
Pyro 2 Temperature Level	OFF
Engine Coolant Temp Hot	220°F
Engine Coolant Temp Cold (cold start protection)	140°F
Boost Level	OFF
Transmission Temp Level	OFF
Oil Temperature	OFF

Here is a list of all of the defueling capabilities for the Mini Maxx. All defueling options can be activated at the same time, all can be turned off, or a mix of on and off. Each defueling option is adjusted individually to be on or off and set to a particular defueling temperature.

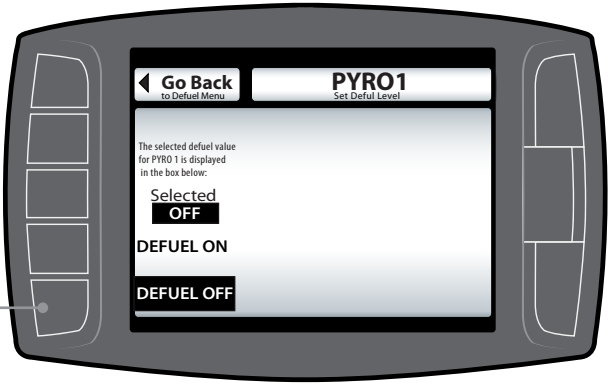
SET DEFUEL LEVELS

When entering a setup menu for any of the defuel options the menu will have a list of defuel levels to select from based on that specific defuel parameter. The selected value is displayed on the left, to select a defuel level you need only highlight the amount and then exit the setup menu. To turn any particular defuel parameter off press the bottom left button.



Use this button to turn the defueling on.

Use the large Up ▲ Down ▼ Buttons to scroll up and down through the different sub menu items.



Use this button to turn the defueling off.

SECTION 7: OTHER MINI MAXX FEATURES

This section describes all the customizing features of the Mini Maxx.

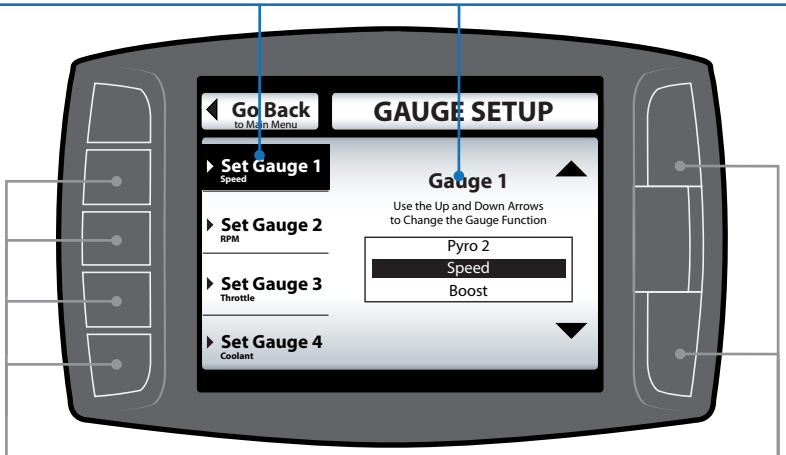
GAUGE SETUP

Enter to change the vehicle parameters displayed on the four gauge locations in the Main Screen. This is also where you can see all of the most up-to-date vehicle parameters available to your vehicle make and model after running an internet upgrade.

Selecting a vehicle parameter to display in a particular location is done by highlighting the gauge location and then highlighting the desired vehicle parameter.

Once the correct vehicle parameter for a gauge location has been highlighted, you do not need to press another button to select that vehicle parameter. Simply highlighting the vehicle parameter makes it active in that location.

Notice that upon entering the gauge setup menu that, Set Gauge 1, is highlighted in black. When a gauge location is selected it is highlighted in black on the left and it also appears above the vehicle parameter selection box.

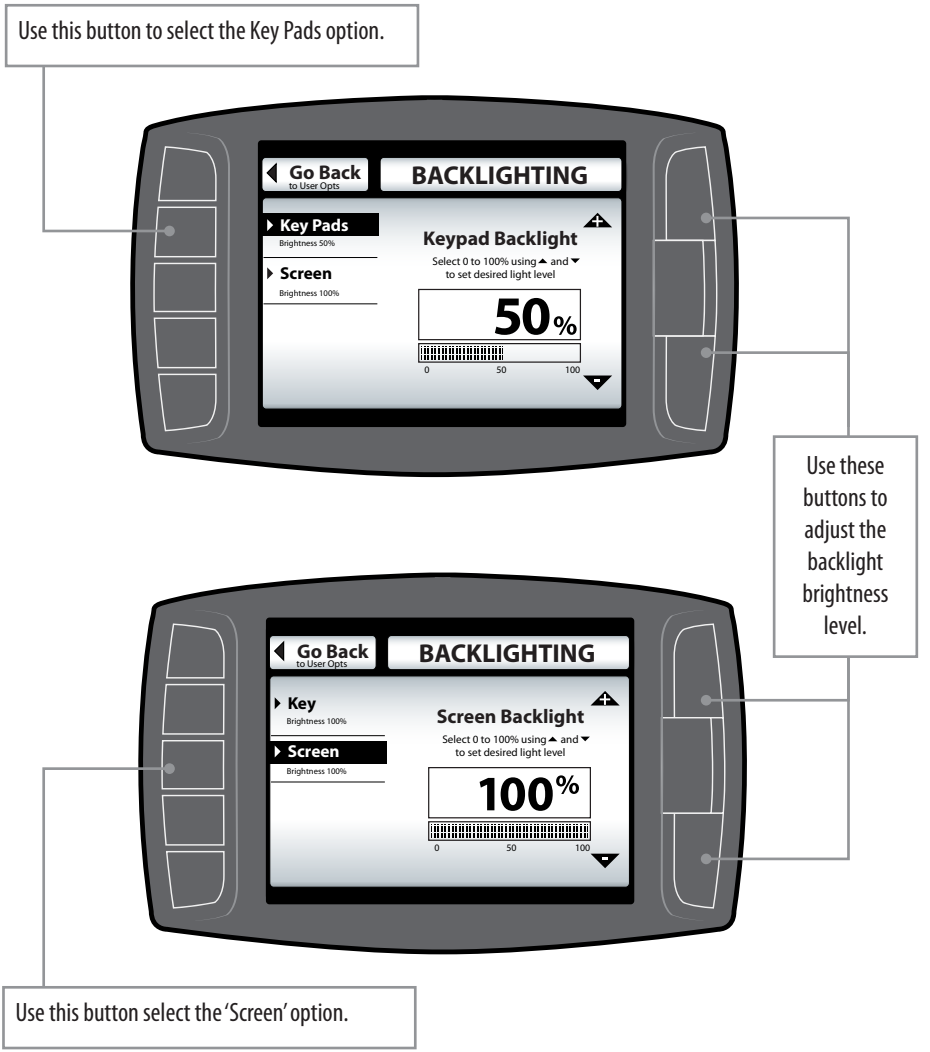


To highlight a different gauge location press the selection button that coincides with that gauge location. So to select gauge location 1, press the second button down on the left hand side of the Mini Maxx. To select the 4th gauge location press the bottom button or the 5th button down on the left side.

Use the large Up ▲Down ▼ Buttons to highlight a particular vehicle parameter for any of the gauge locations.

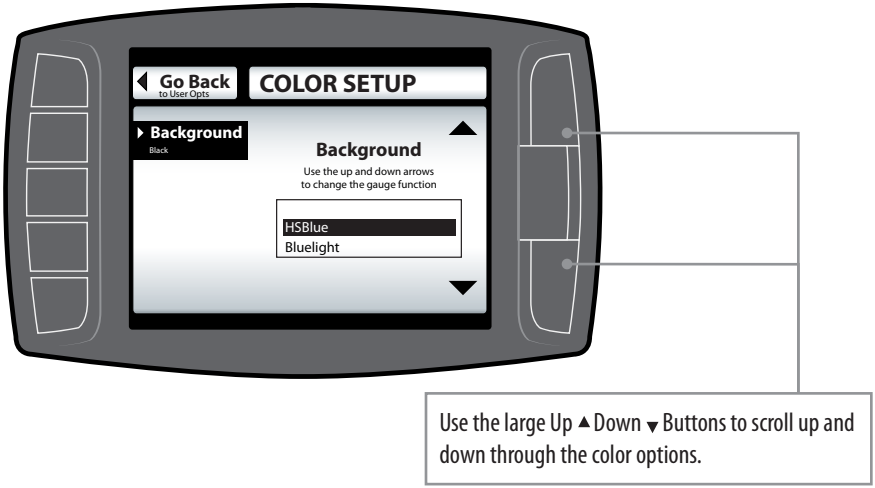
ADJUST BACKLIGHT

Highlight either keypad or screen and use the up and down buttons to adjust the lighting to your preference.



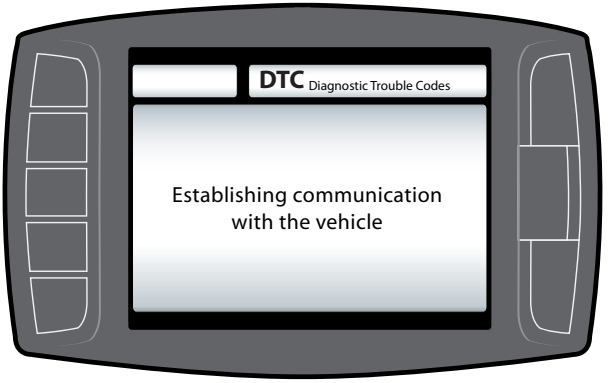
CHANGE BACKGROUND COLOR

Use the up and down buttons to select a background color. The Mini Maxx background will preview each color background as you scroll up and down through the color options. When the preferred color is highlighted, exit the color menu to select the color.

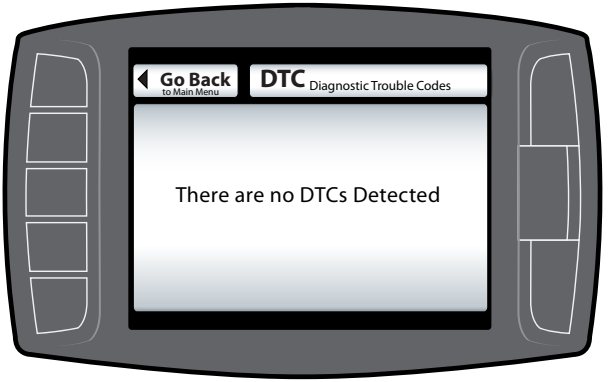


DIAGNOSTICS

This sub menu allows you to check vehicle Diagnostic Trouble Codes (DTCs). Upon entering this menu, the Mini Maxx will automatically begin to check the vehicle for DTCs and it will then display those DTCs on the Mini Maxx screen. Once it displays the DTCs value and description on the screen it will allow you to erase the DTCs from the vehicle.



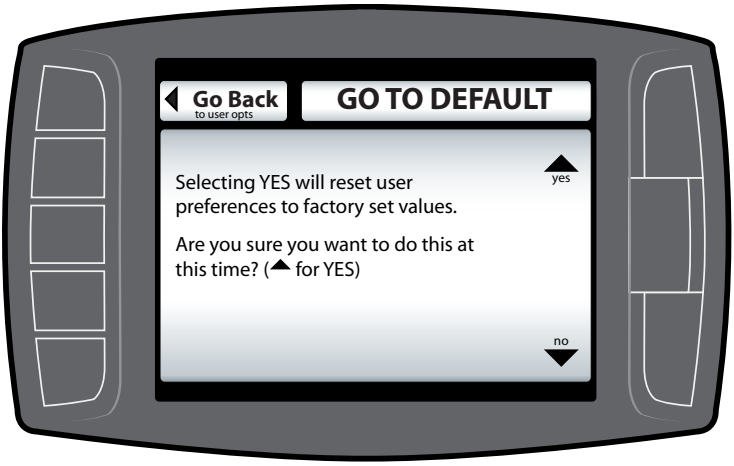
If no DTCs are displayed you can simply press the Go Back button to return to the main menu. For a complete list of DTC descriptions, please visit the Tech section of our website www.hsperformance.com



THE MICRO SD CARD MUST BE INSERTED IN THE SIDE OF THE MINI MAXX TO READ AND ERASE DTCS

RESET TO DEFAULT SETTING

To reset the Mini Maxx to H&S Performance factory settings press the up button to select yes, to keep current settings back out of this menu by pressing the go back button or by pressing the down button to select no.



SHOW SETTINGS

The Show Settings Menu will allow you to see vehicle information and also defuel settings. See the diagram below to see everything that is listed in this menu. On Cummins and Powerstroke trucks, the Part# and Transmission# will be needed for updating the Mini Maxx.

MICRO SD CARD

The SD card should only be taken out of the Mini Maxx to perform internet upgrades. It is the primary means of performing internet upgrades for the Mini Maxx.

In case an SD Card is lost or broken, a new SD Card can be purchased from H&S Performance.

WEB UPDATES

Remove Mini Maxx from vehicle. Connect your Mini Maxx to your personal computer with the mini USB cable to install software updates. Visit www.hsperformance.com in the downloads section for product updates. Please find your product application and follow the posted instructions there to update your Mini Maxx.

H & S Performance, LLC

4012 S. River RD STE 6C
St. George, UT 84790
435-628-1730

www.hsperformance.com